

Title (en)
PRINthead HAVING A TEMPERATURE-CONTROL DEVICE

Title (de)
DRUCKKOPF MIT TEMPERIEREINRICHTUNG

Title (fr)
TÊTE D'IMPRESSION POURVUE D'UN DISPOSITIF DE THERMORÉGULATION

Publication
EP 3554714 A1 20191023 (DE)

Application
EP 17818069 A 20171201

Priority
• DE 102016014943 A 20161214
• EP 2017081117 W 20171201

Abstract (en)
[origin: WO2018108571A1] The invention relates to an application device (V) for applying an application agent to a component, preferably for applying a coat to a motor-vehicle body component. The application device (V) comprises a printhead (100) for preferably serially and/or continuously applying the application agent, wherein the printhead (100) has: a nozzle plate (1), at least one nozzle (2) in the nozzle plate (1) for dispensing the application agent, at least one valve element (9) movable relative to the nozzle plate (1) for controlling the dispensing of the application agent by means of the at least one nozzle (2), wherein the at least one movable valve element (9) closes the at least one nozzle (2) in a closed position and opens the at least one nozzle in an open position, and at least one drive (A) for moving the at least one valve element (9). The application device (V) is characterized in particular in that the application device comprises at least one temperature-control device (T1-T8) for reducing heating of the at least one drive (A) during the application of the application agent.

IPC 8 full level
B05B 1/24 (2006.01); **B05B 1/30** (2006.01); **B05B 12/10** (2006.01); **B05B 13/04** (2006.01); **B41J 29/377** (2006.01); **F16K 49/00** (2006.01); **G05D 24/00** (2006.01)

CPC (source: EP US)
B05B 1/02 (2013.01 - US); **B05B 1/24** (2013.01 - EP US); **B05B 1/3053** (2013.01 - EP US); **B05B 12/10** (2013.01 - US); **B05B 12/149** (2013.01 - US); **B05B 13/0431** (2013.01 - US); **B05B 13/0452** (2013.01 - US); **B05C 5/001** (2013.01 - US); **B05C 5/0225** (2013.01 - US); **B05C 5/0291** (2013.01 - US); **B05C 11/1042** (2013.01 - US); **B25J 11/0075** (2013.01 - US); **B41J 2/06** (2013.01 - US); **F16K 31/004** (2013.01 - EP US); **F16K 49/005** (2013.01 - EP US); **B05B 12/10** (2013.01 - EP); **B05B 13/0452** (2013.01 - EP); **B41J 3/4073** (2013.01 - US); **B41J 2202/08** (2013.01 - US)

Citation (search report)
See references of WO 2018108571A1

Cited by
DE102021133410A1; WO2023110511A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102016014943 A1 20180614; CN 110099750 A 20190806; CN 110099750 B 20220628; EP 3554714 A1 20191023; EP 3554714 B1 20210203; ES 2865437 T3 20211015; JP 2020501888 A 20200123; JP 7021222 B2 20220216; MX 2019006960 A 20190801; US 11298717 B2 20220412; US 2019314847 A1 20191017; WO 2018108571 A1 20180621

DOCDB simple family (application)
DE 102016014943 A 20161214; CN 201780077477 A 20171201; EP 17818069 A 20171201; EP 2017081117 W 20171201; ES 17818069 T 20171201; JP 2019532012 A 20171201; MX 2019006960 A 20171201; US 201716468700 A 20171201